

FIG. 1

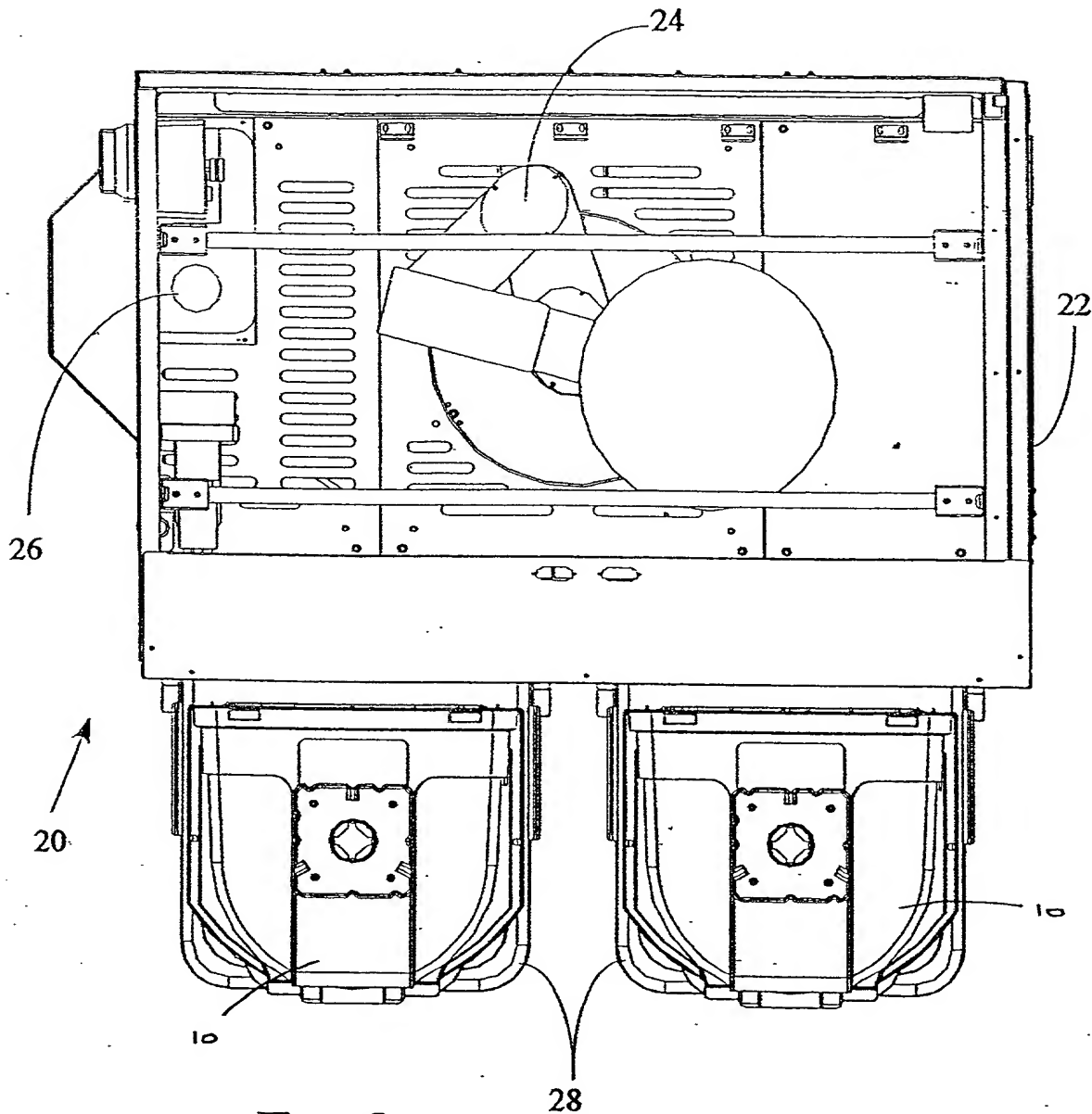


FIG. 2

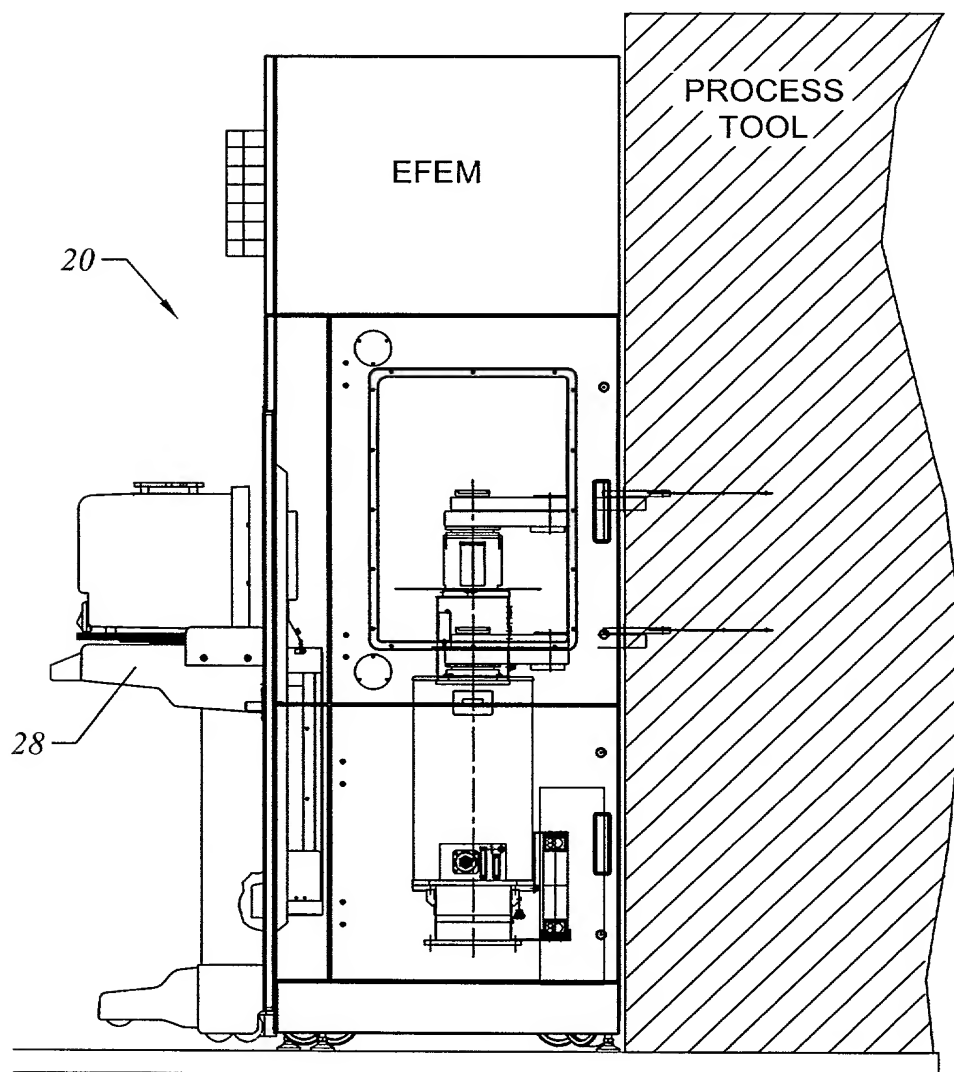
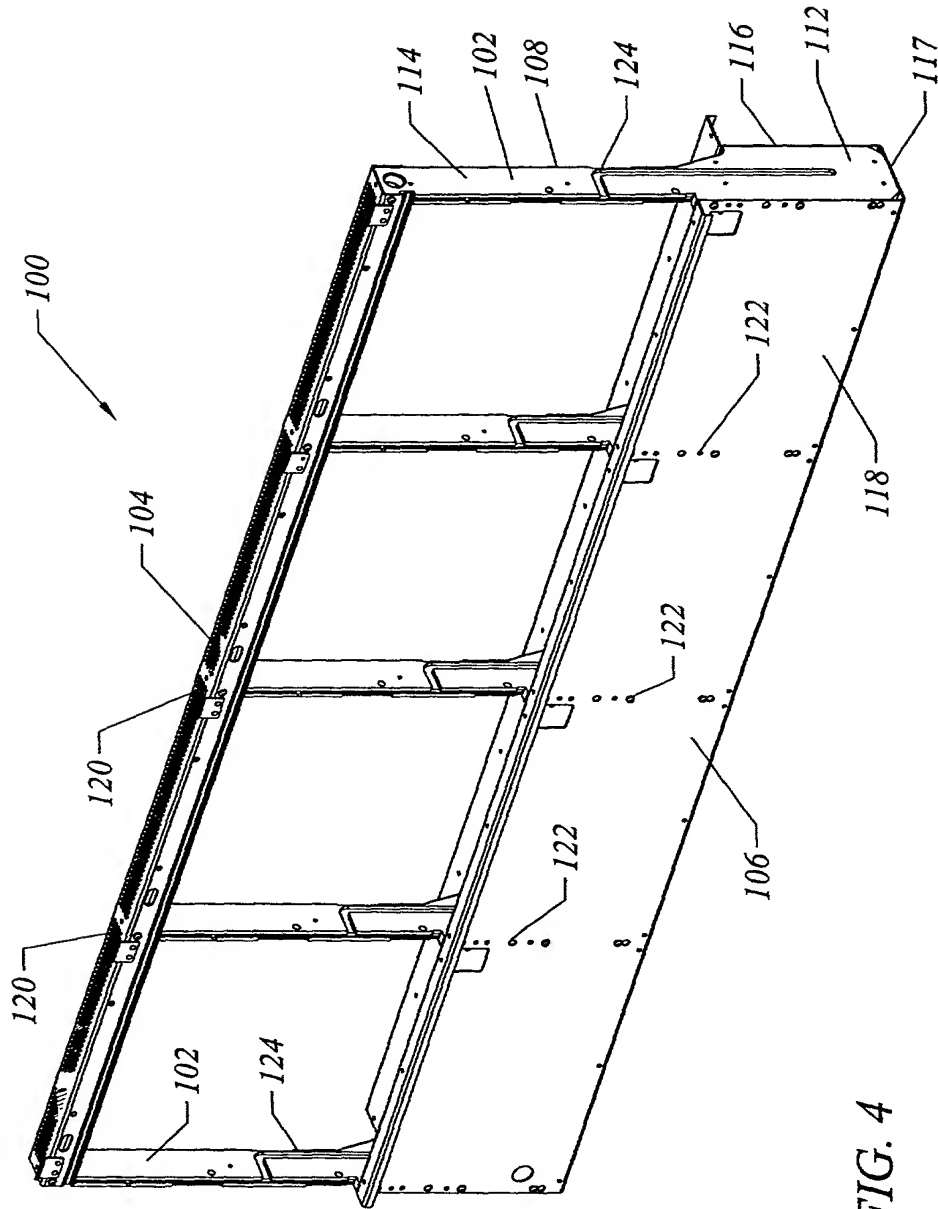


FIG. 3





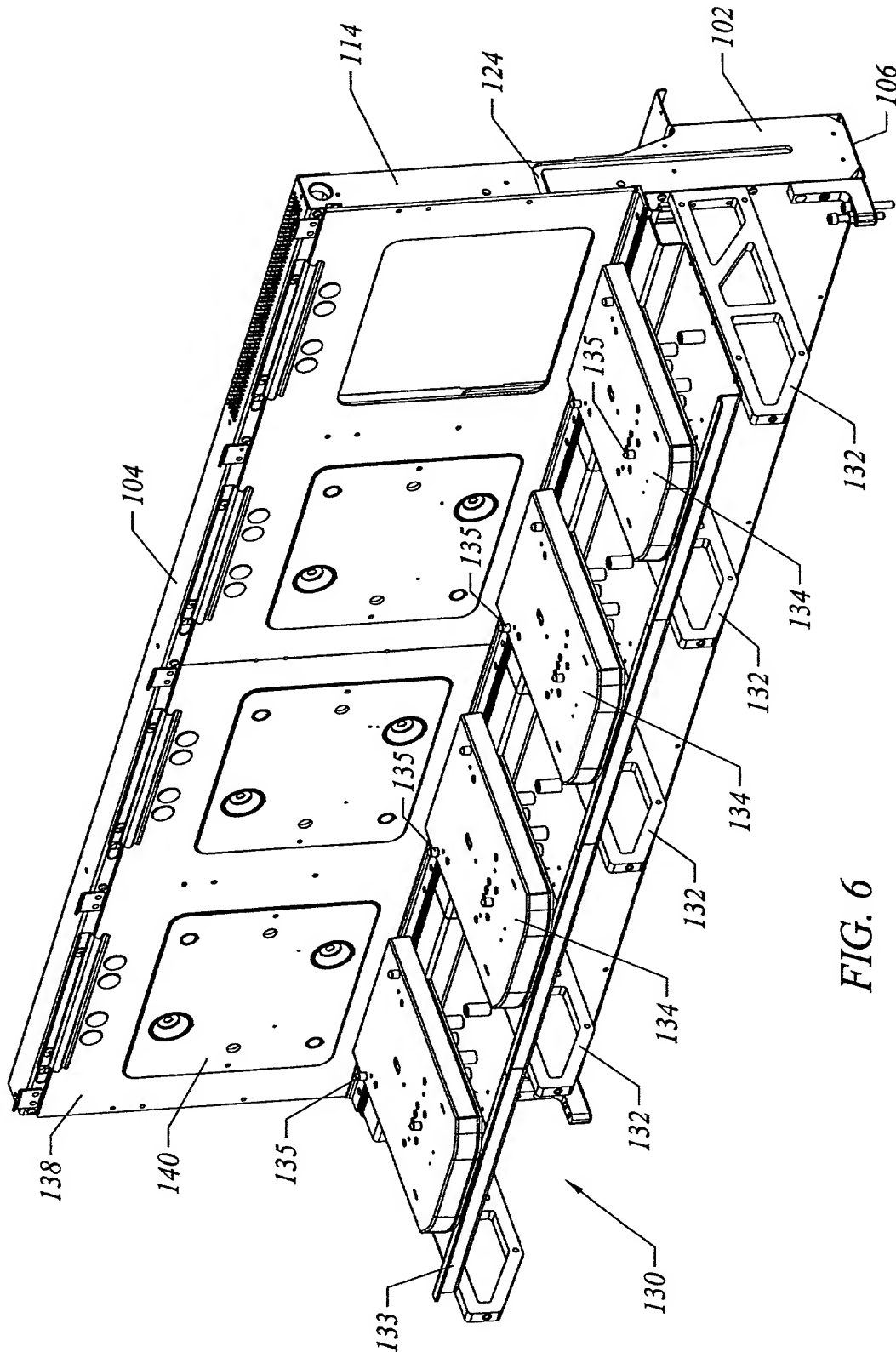


FIG. 6

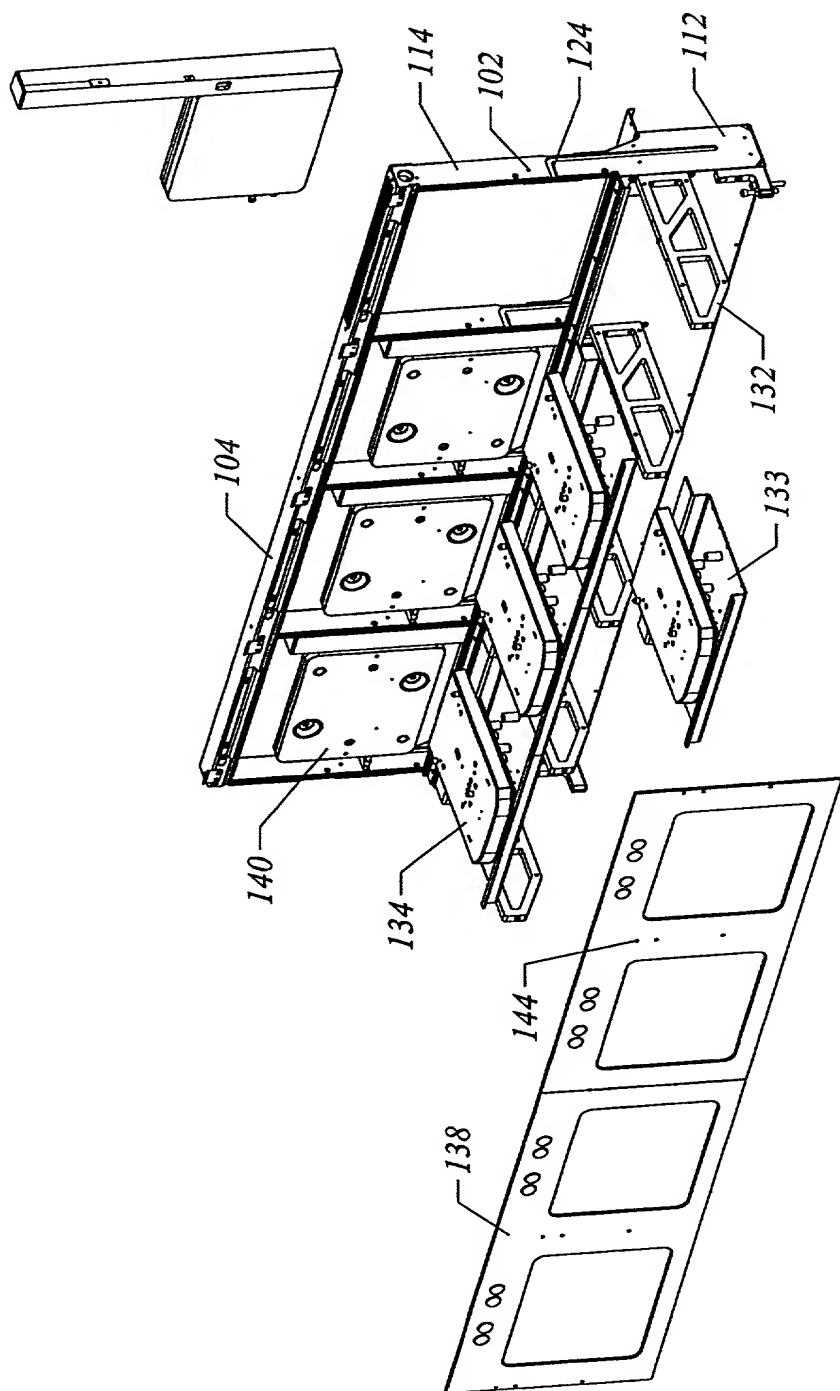
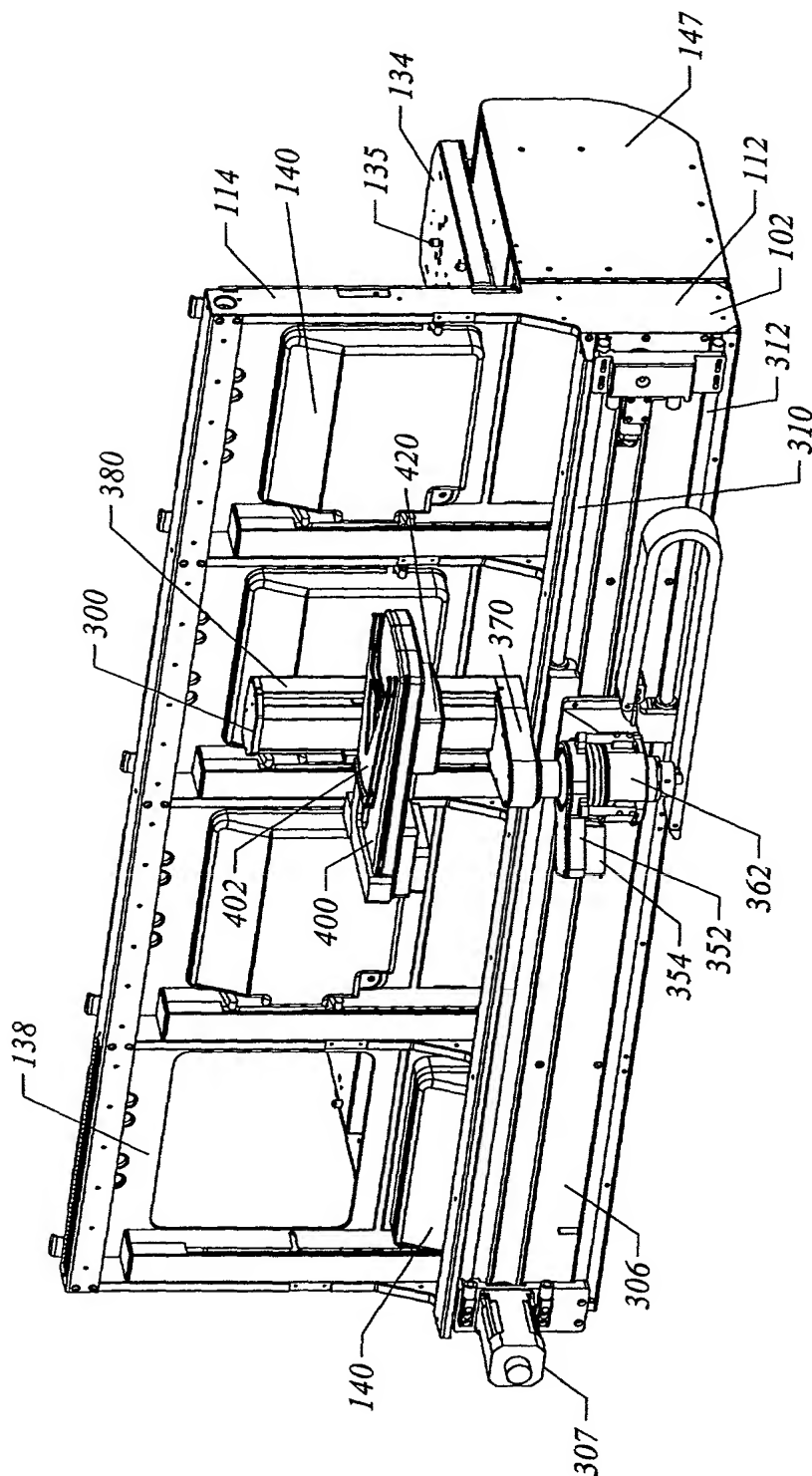


FIG. 7





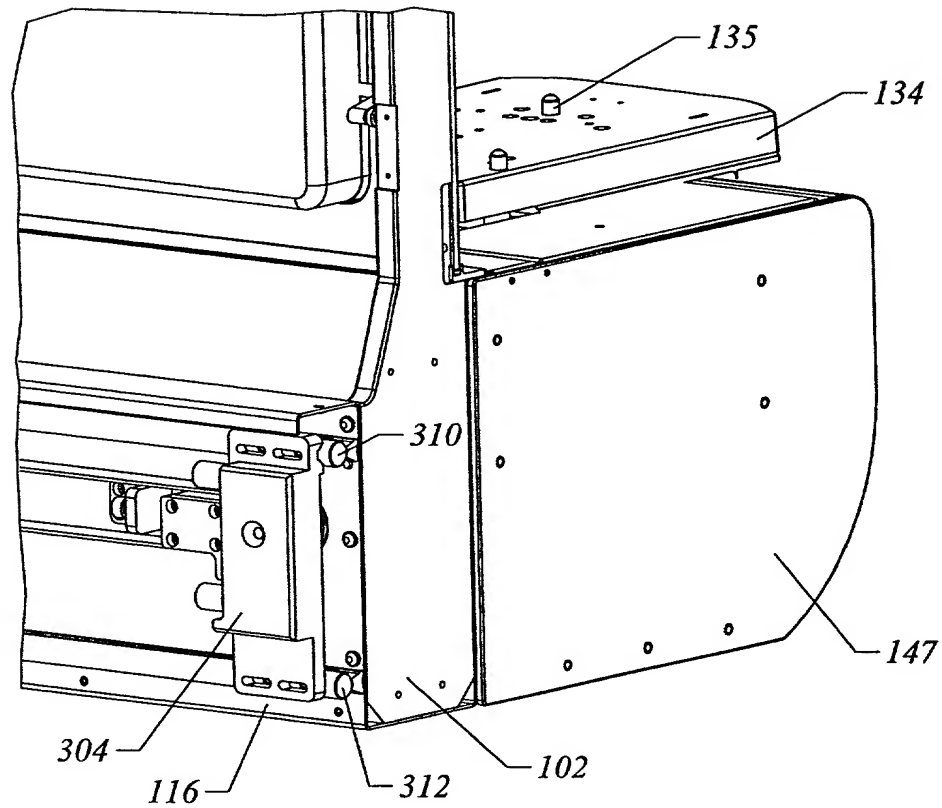


FIG. 9

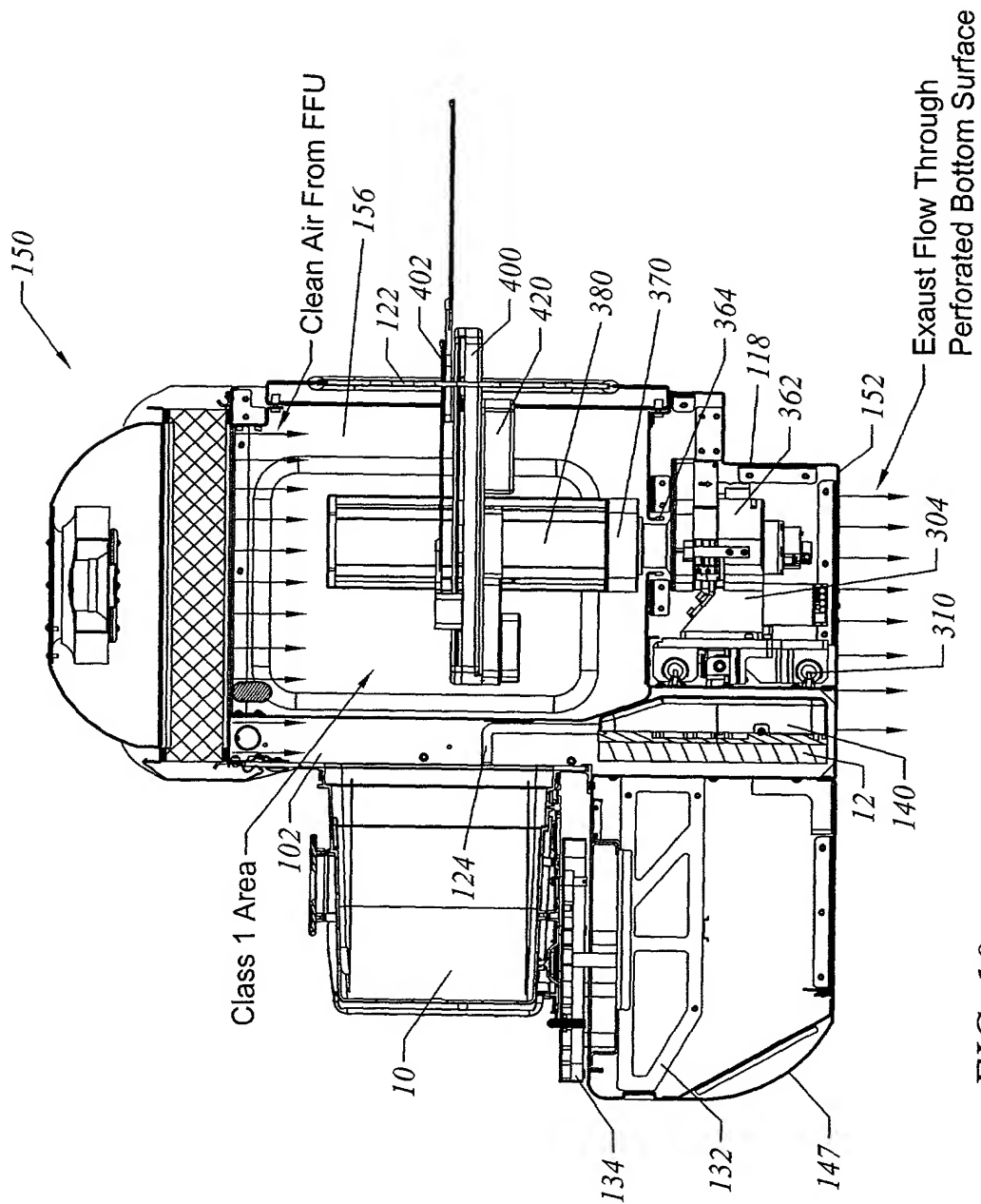


FIG. 10

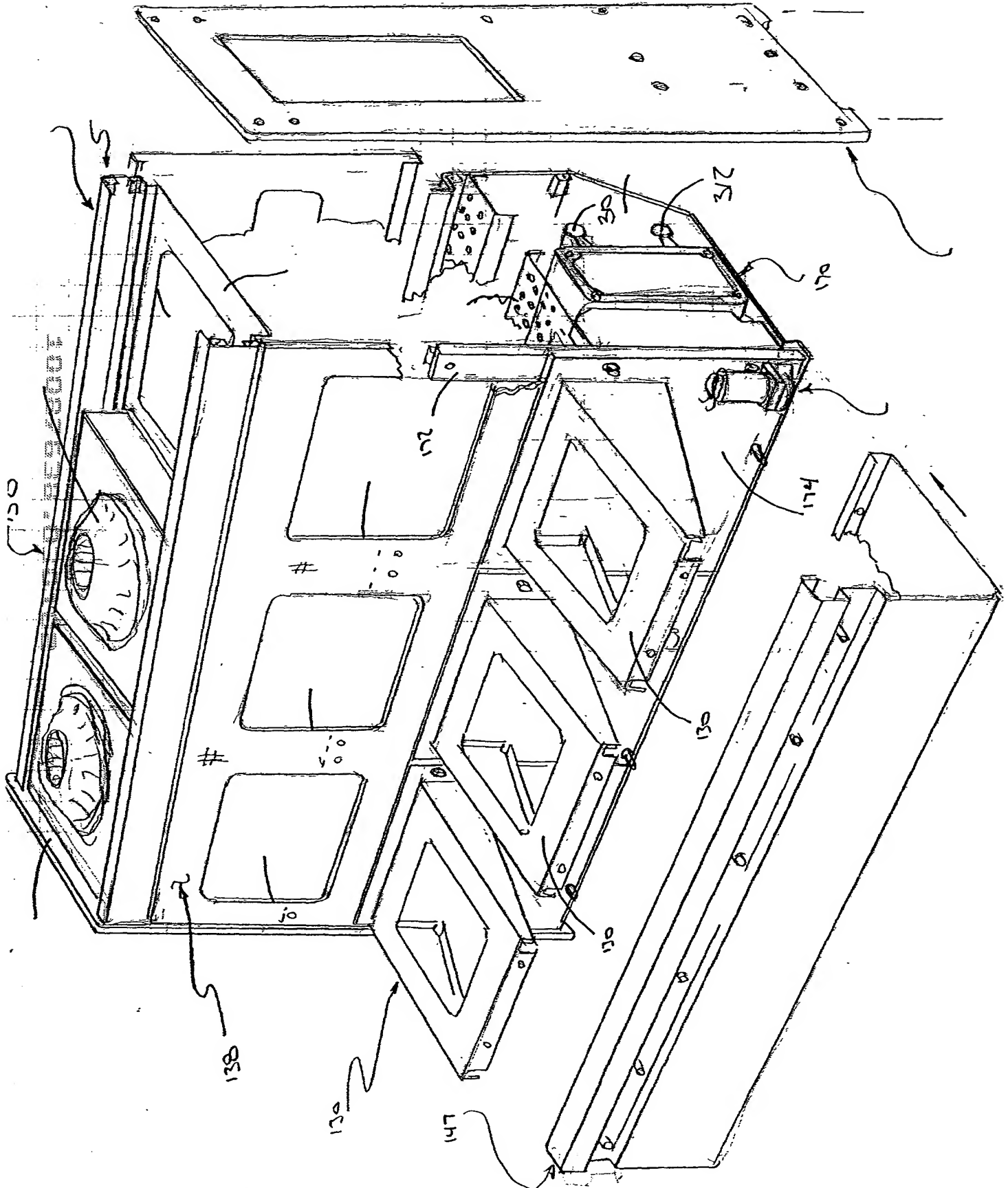


FIG. 11

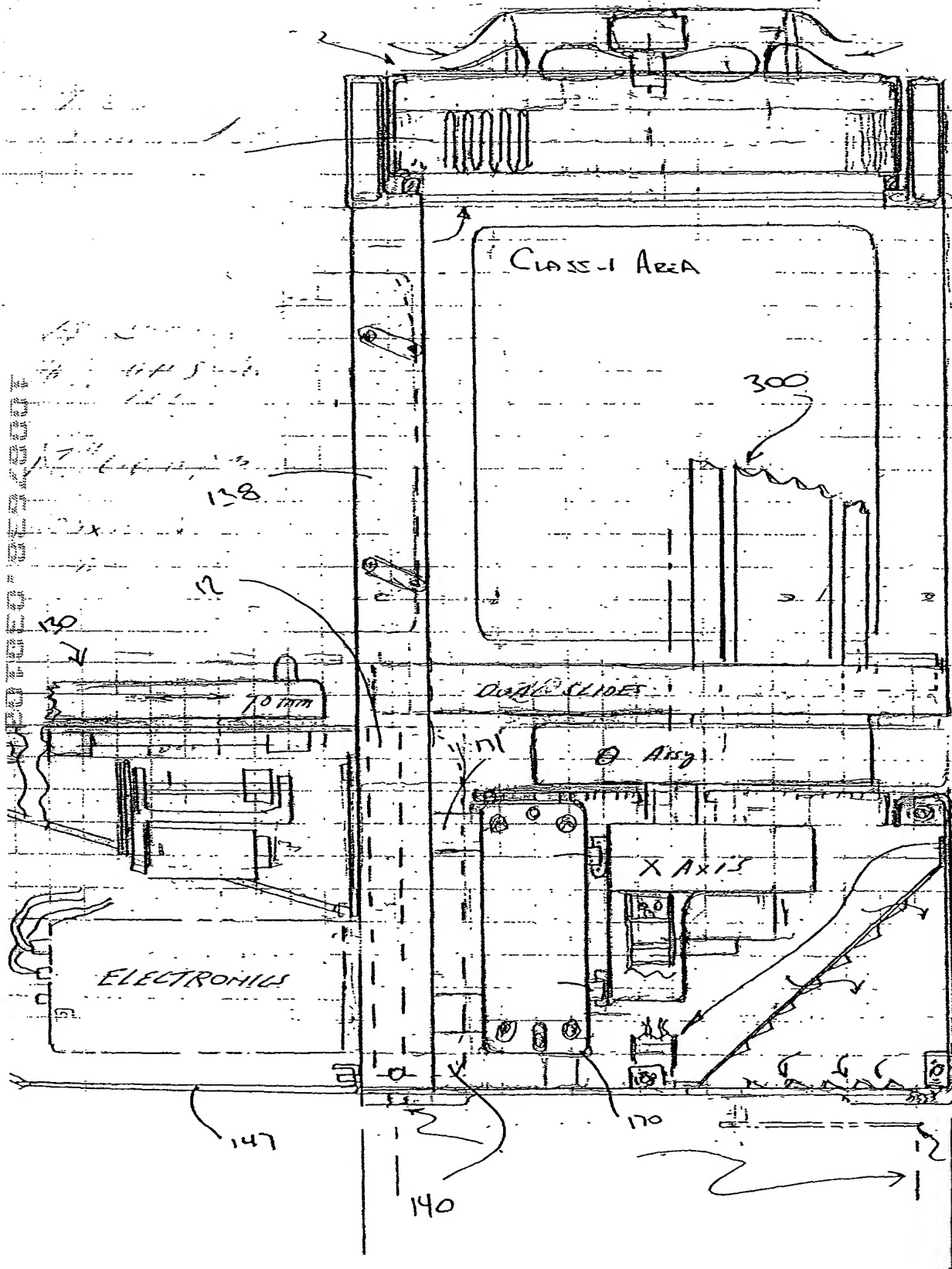


FIG. 12

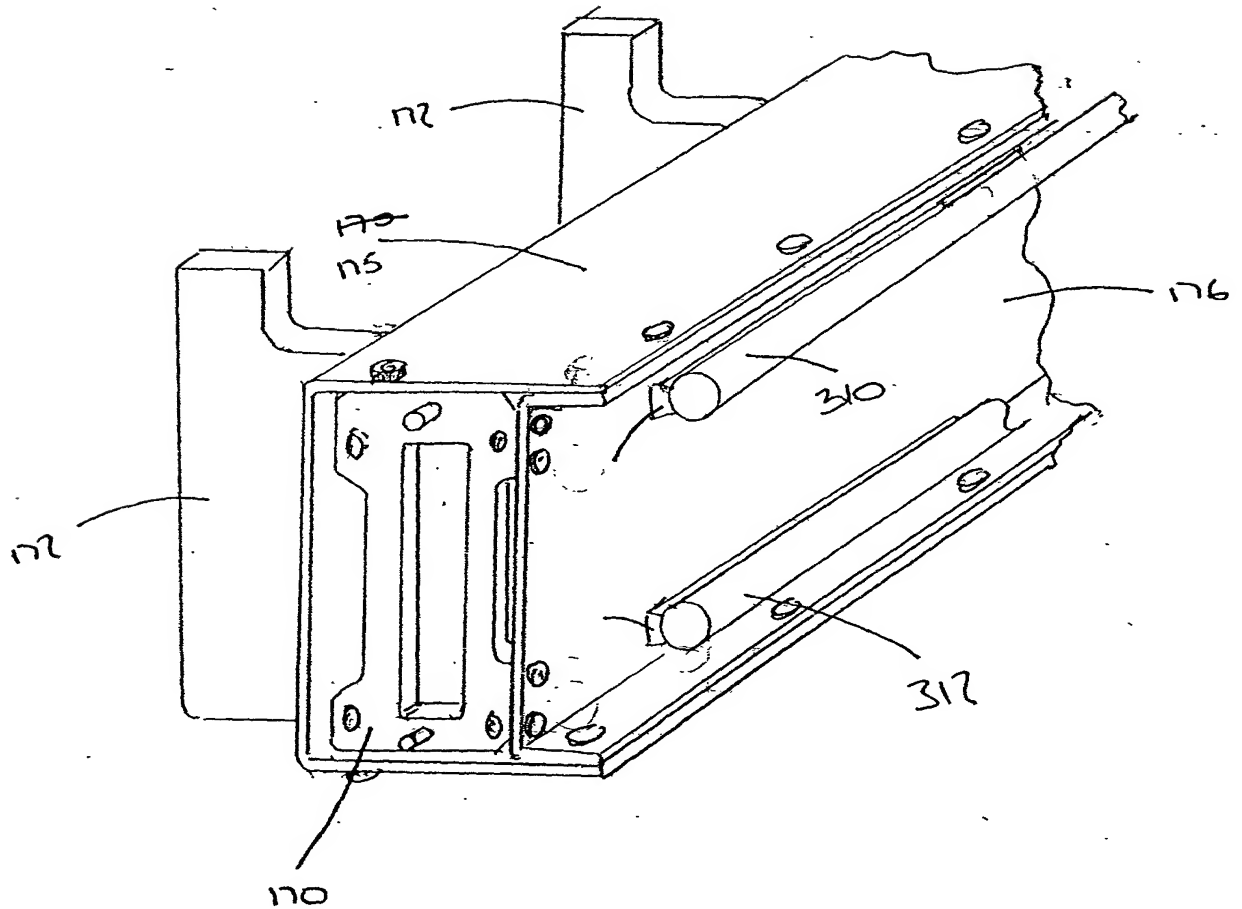
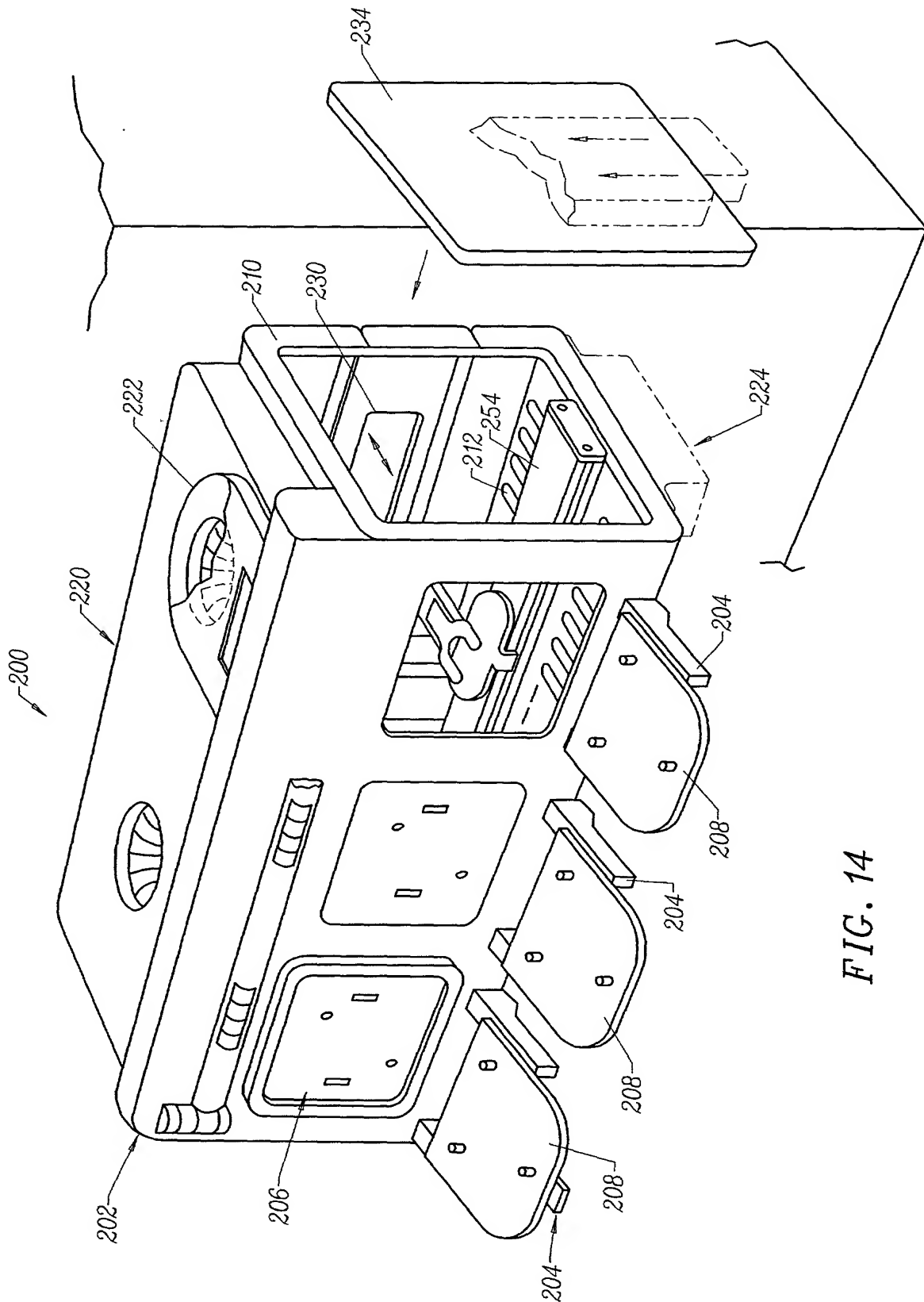


FIG. 13



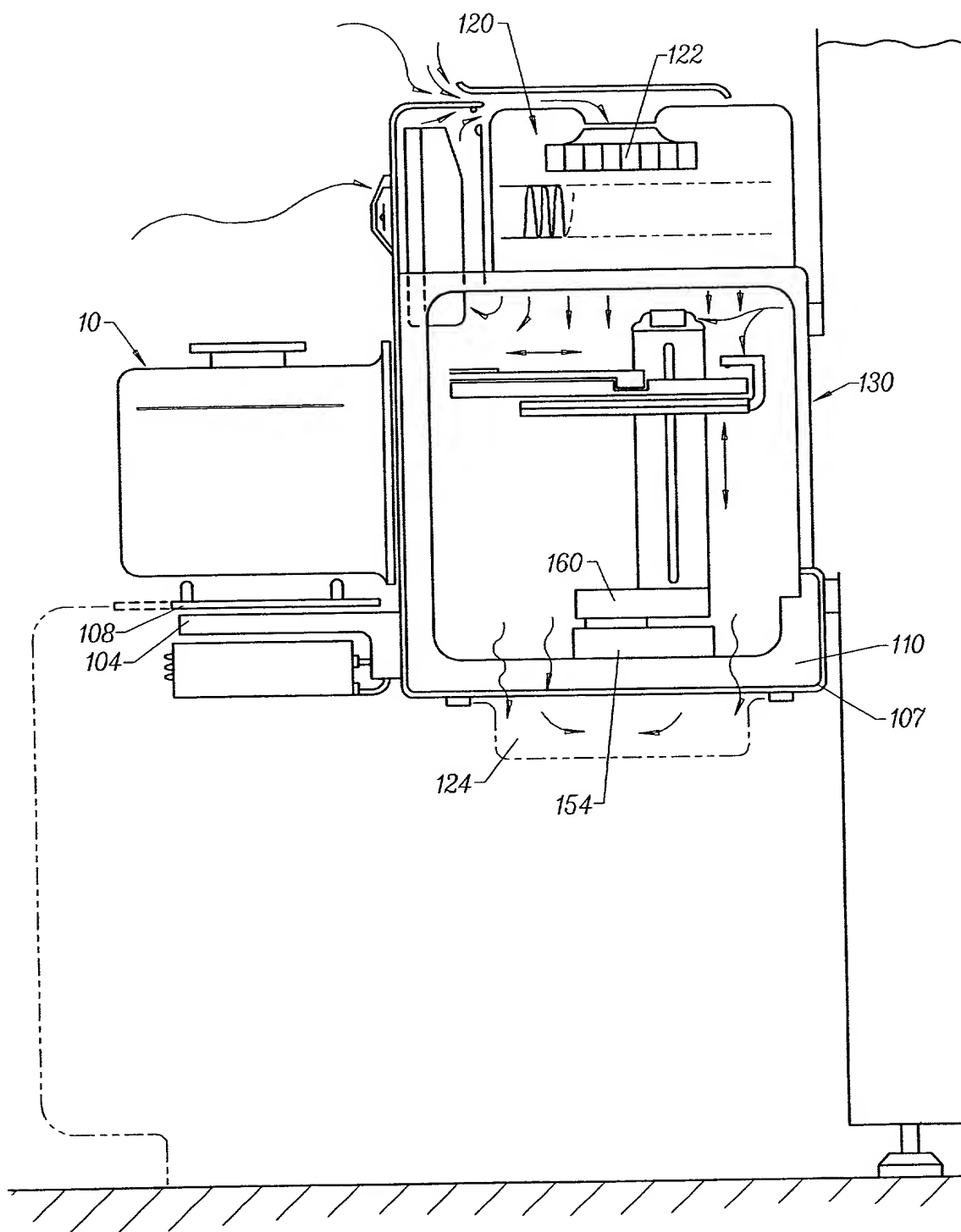


FIG. 15

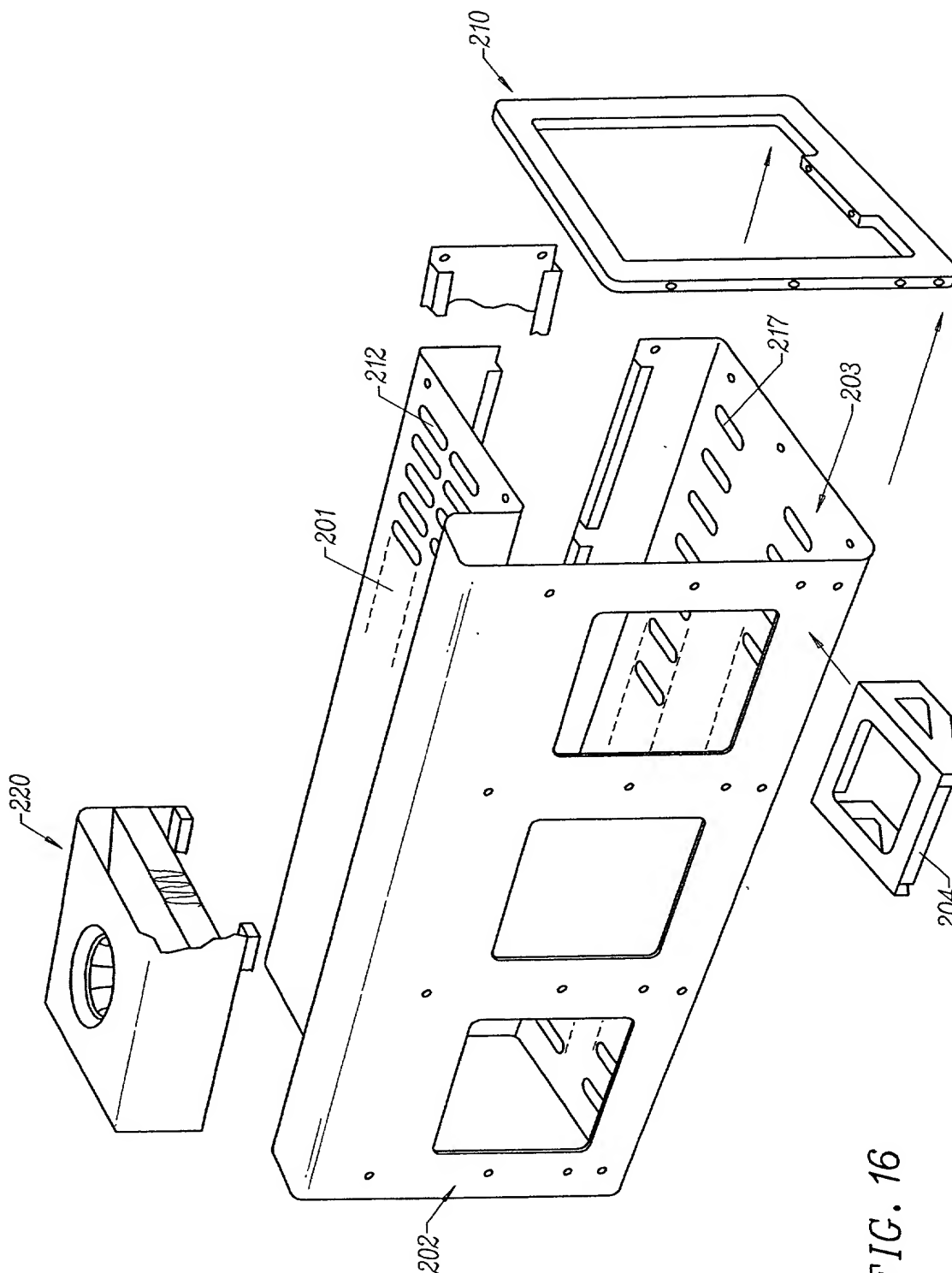
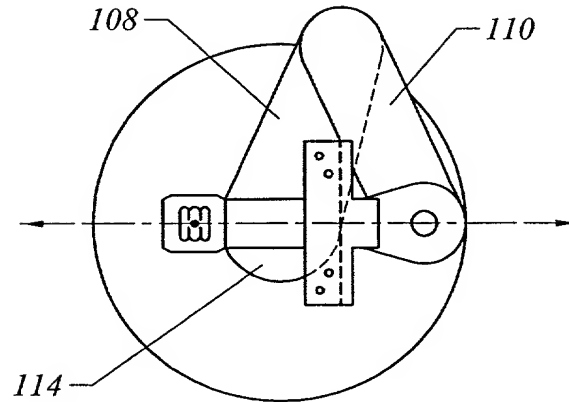
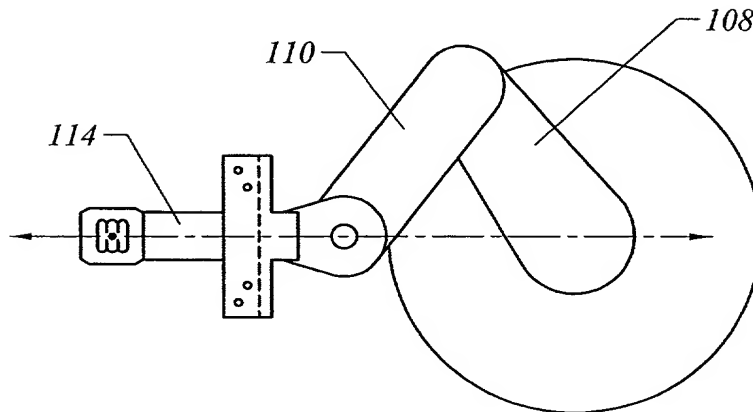


FIG. 16





*FIG. 17A*  
(Prior Art)



*FIG. 17B*  
(Prior Art)

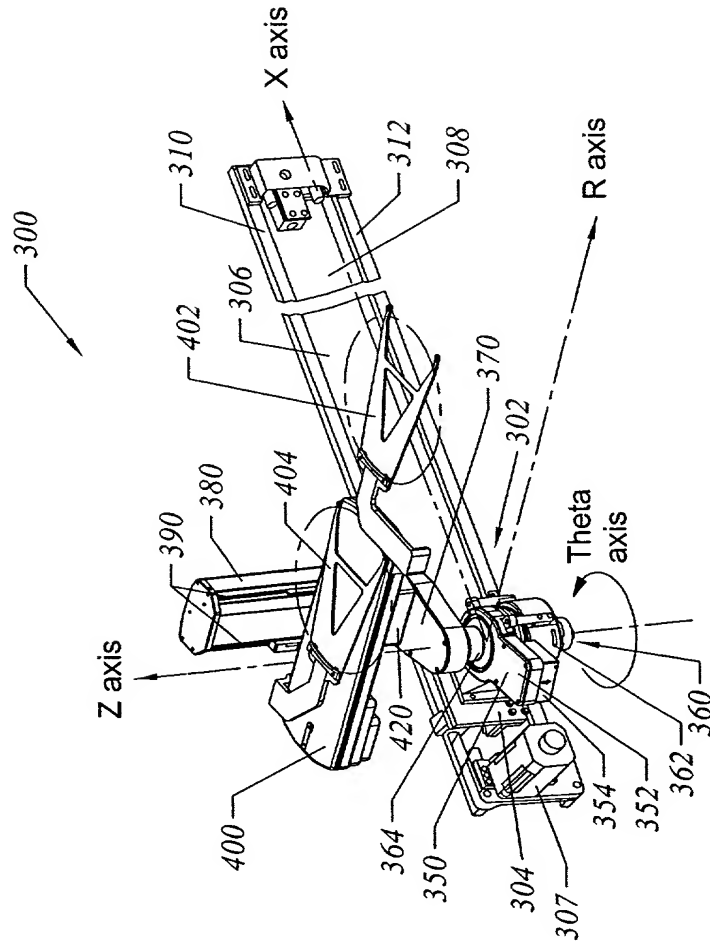


FIG. 18



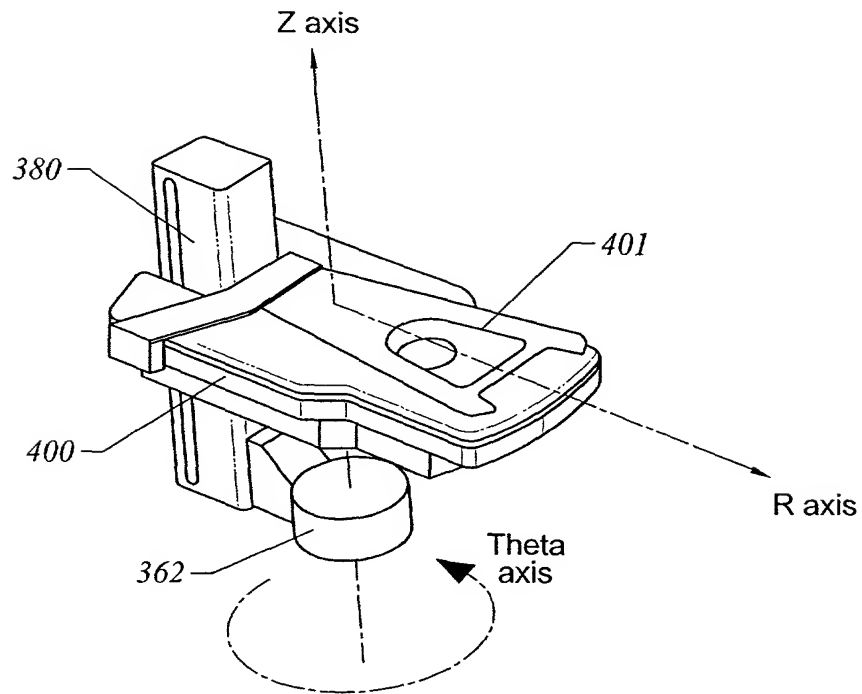


FIG. 20

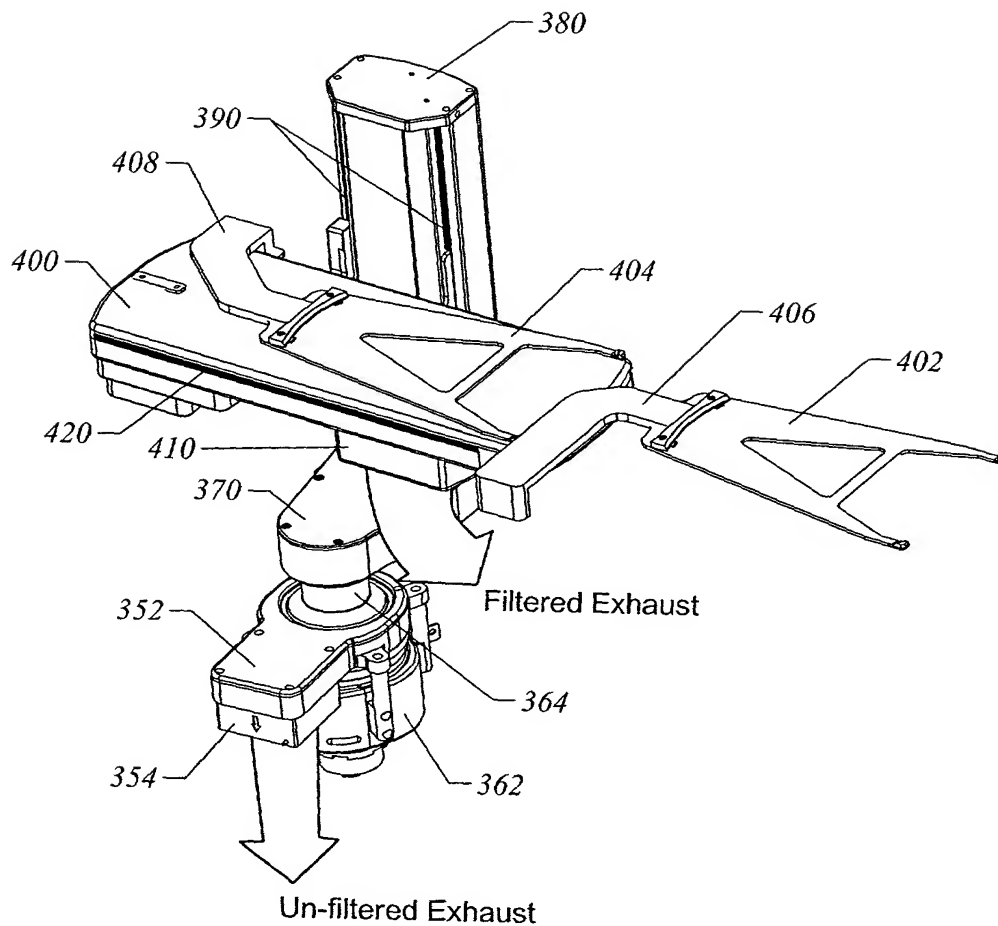


FIG. 21

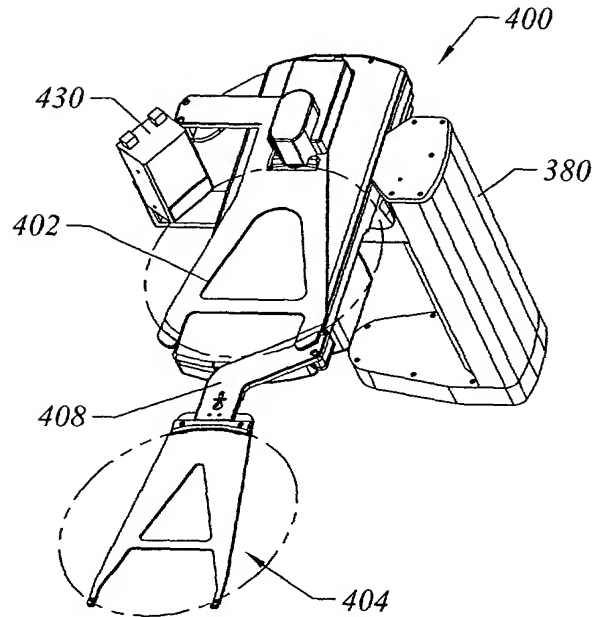


FIG. 22A

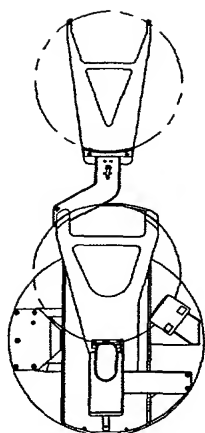


FIG. 22B

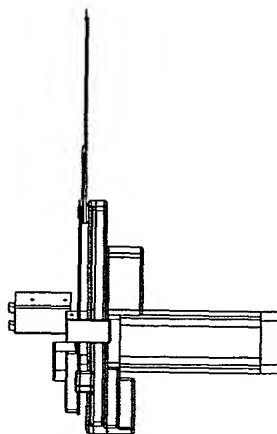


FIG. 22C

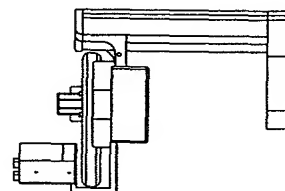


FIG. 22D

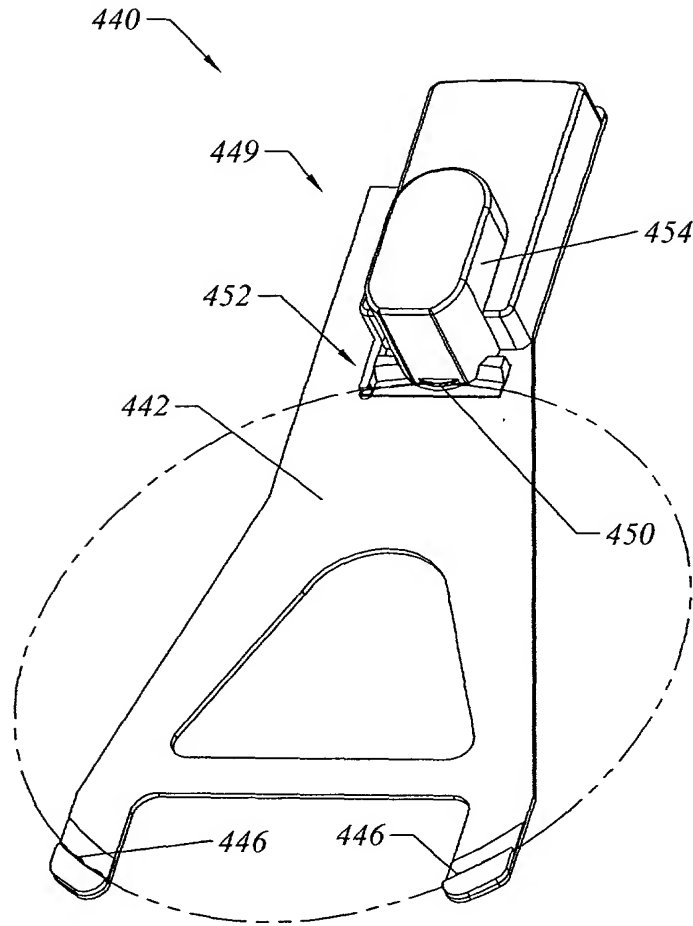


FIG. 23



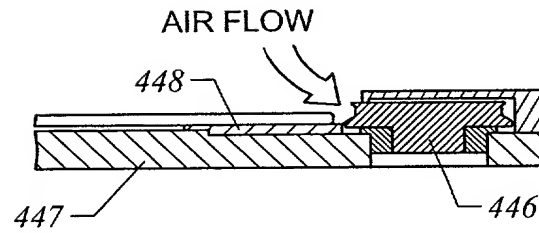


FIG. 24A

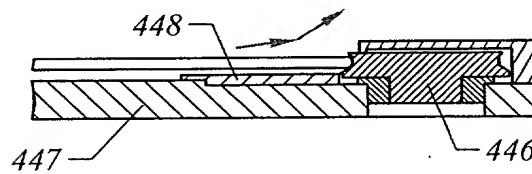


FIG. 24B

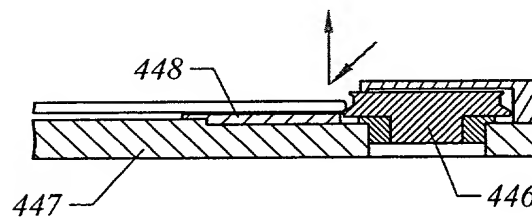


FIG. 24C

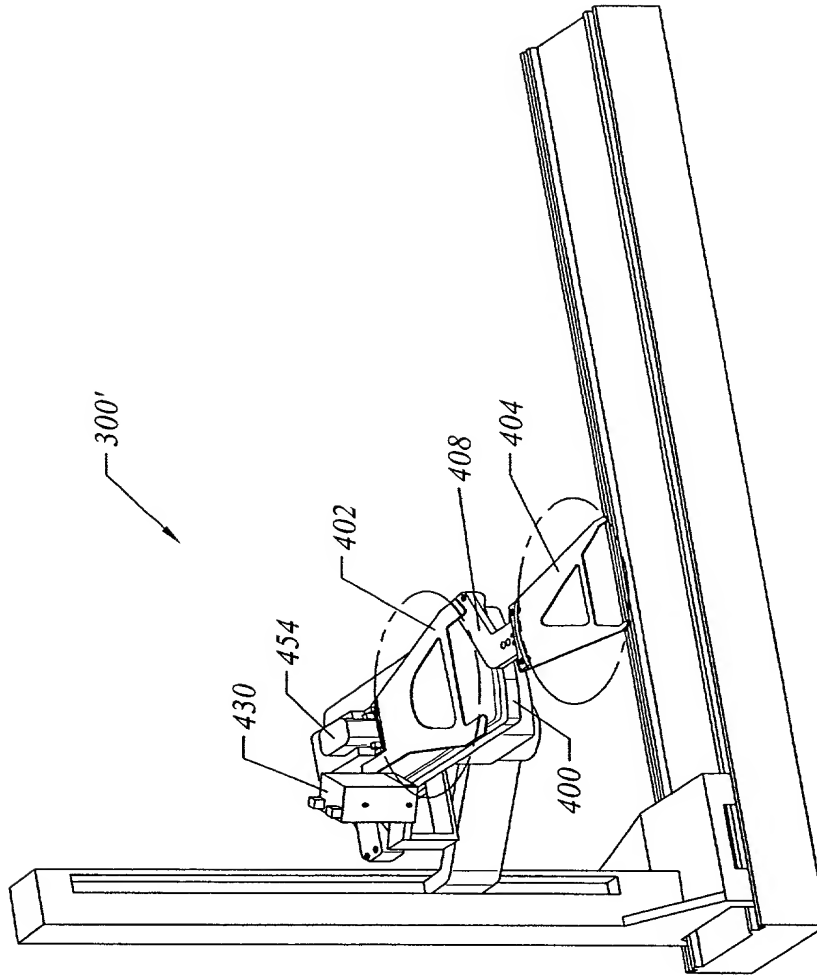


FIG. 25

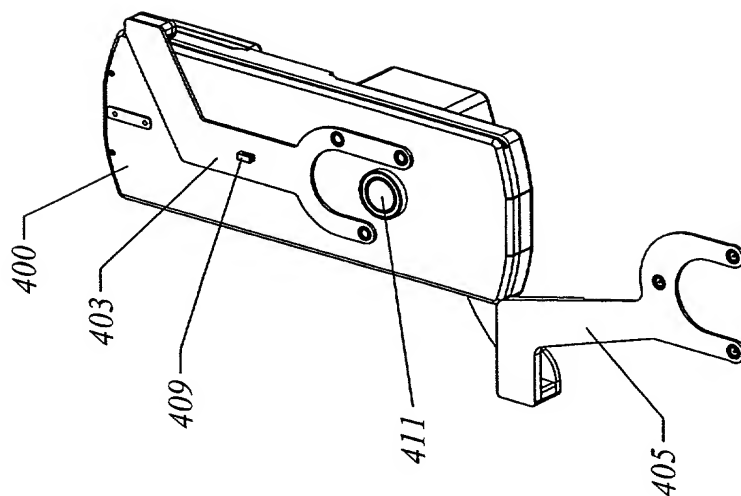


FIG. 26B

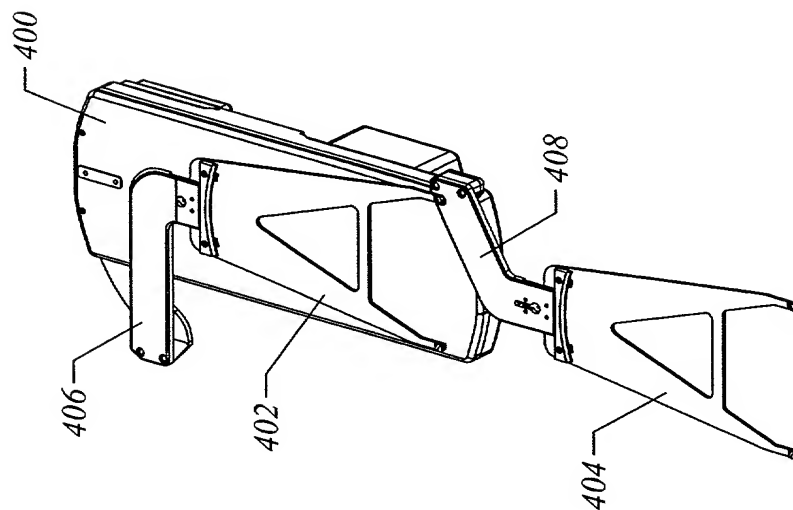
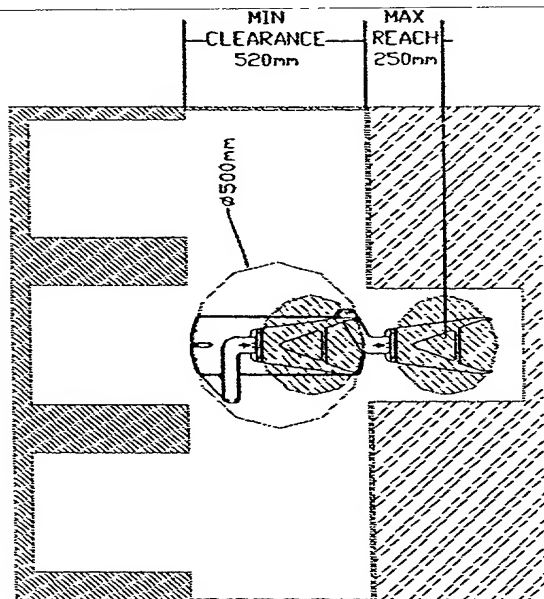
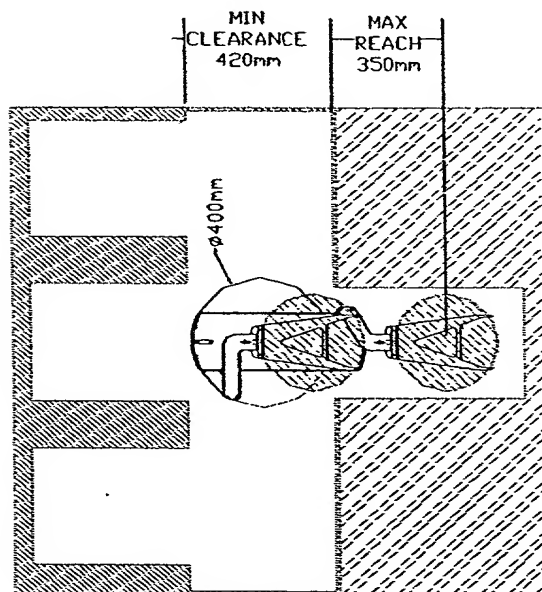


FIG. 26A

Conventional Linear Slide Robot



Off-Center Slide-Body (50mm offset)



EFEM Process Tool

FK.27A

FK.27B

Example motion sequence for rapid swap slide-body with off center rotation axis.

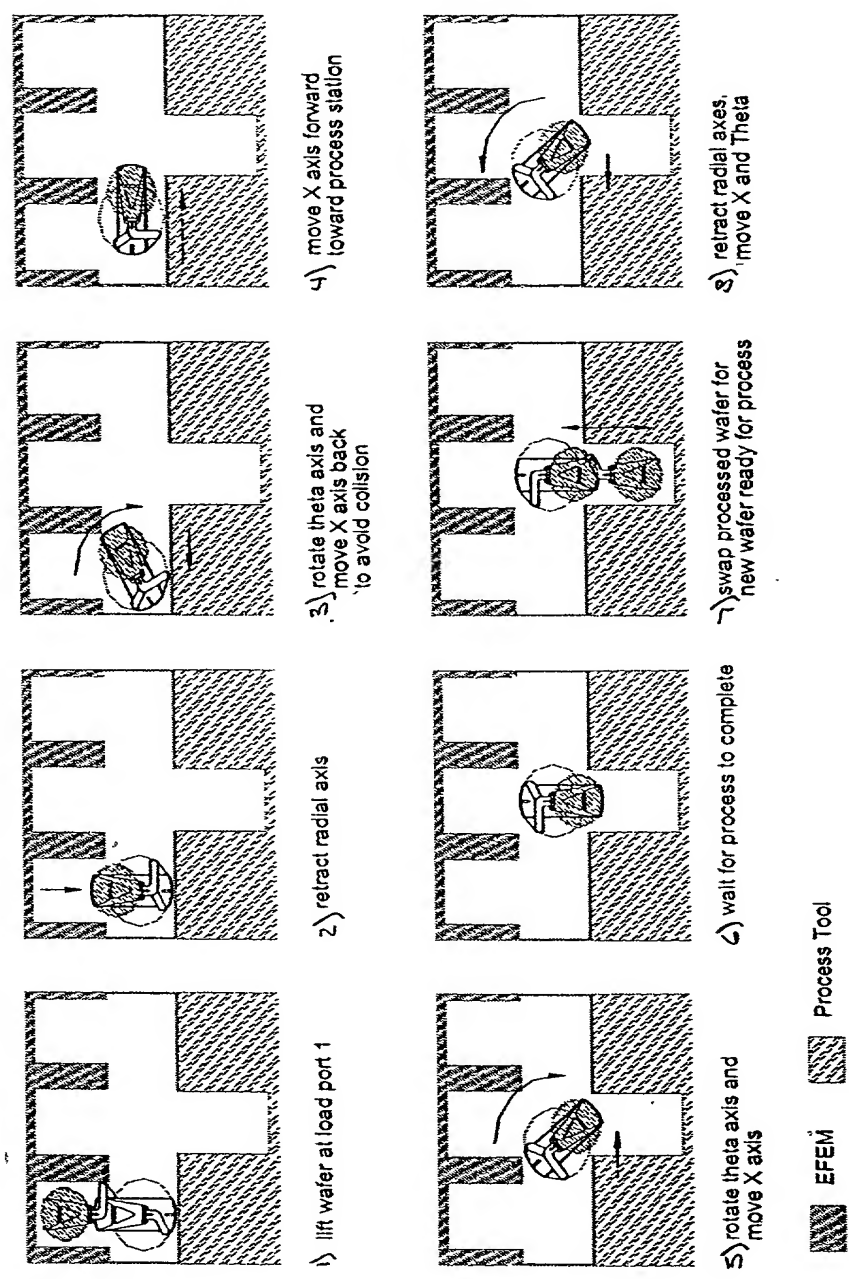


FIG. 28

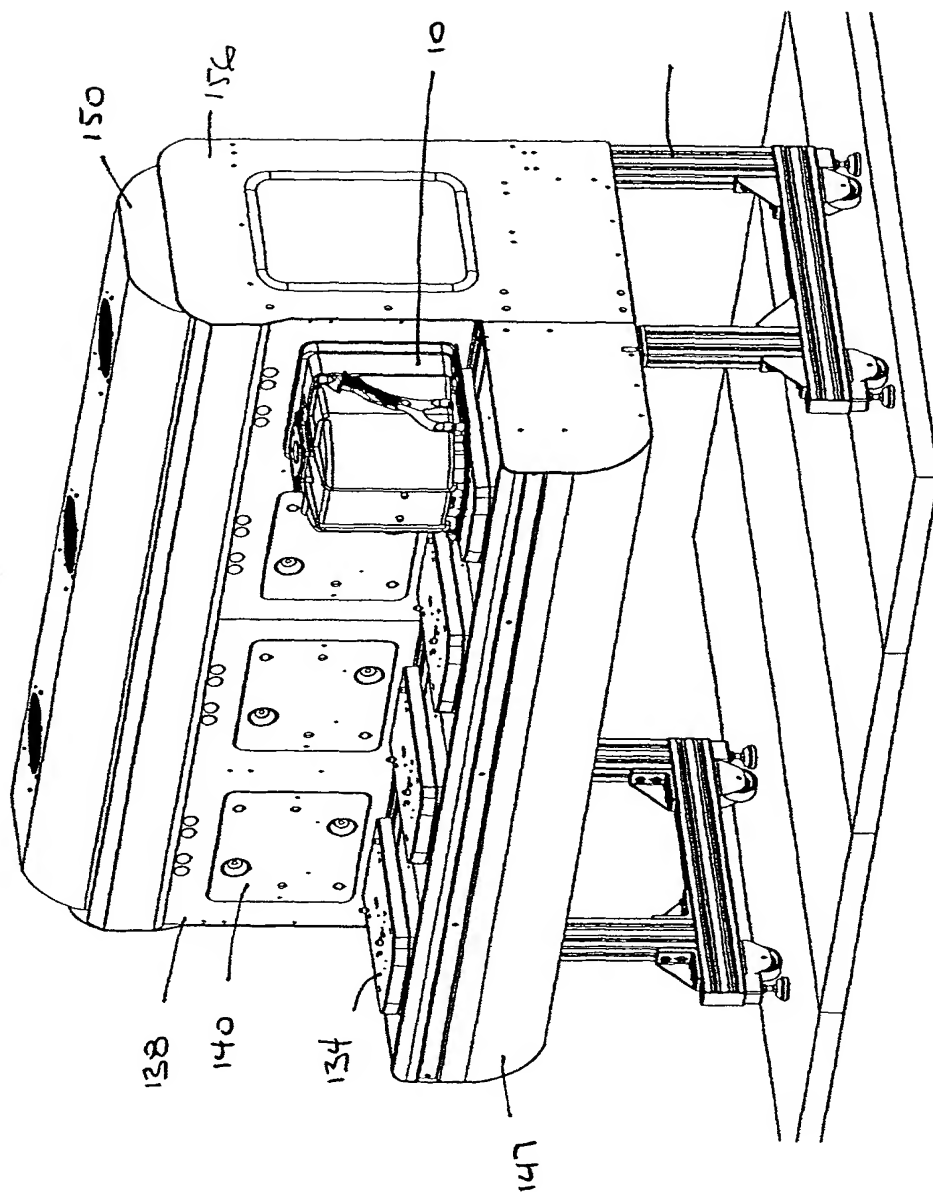


FIG. 29A

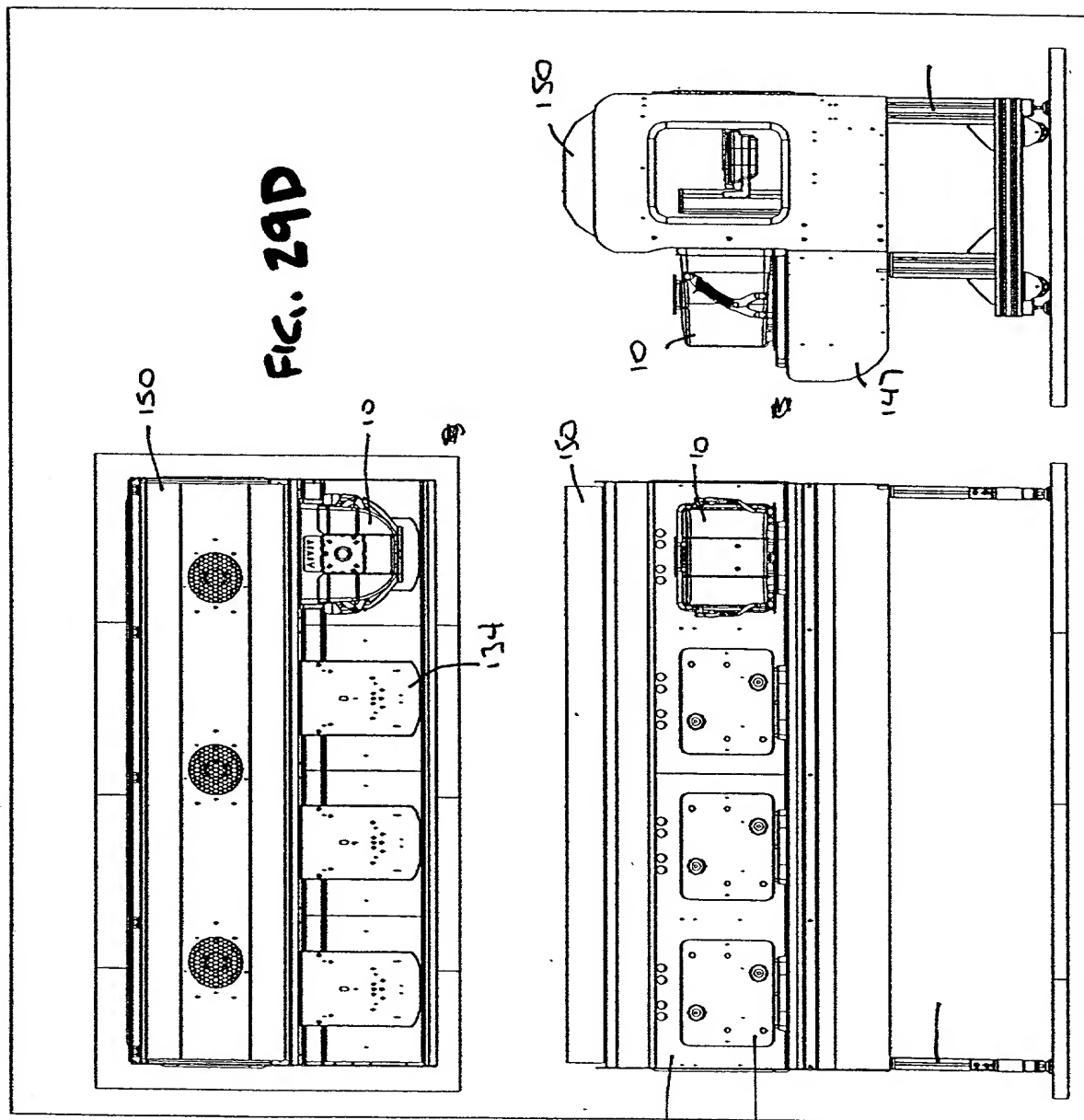
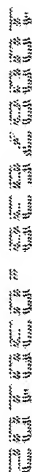


FIG. 29C

FIG. 29B

FIG. 29D



**FIG. 30A**



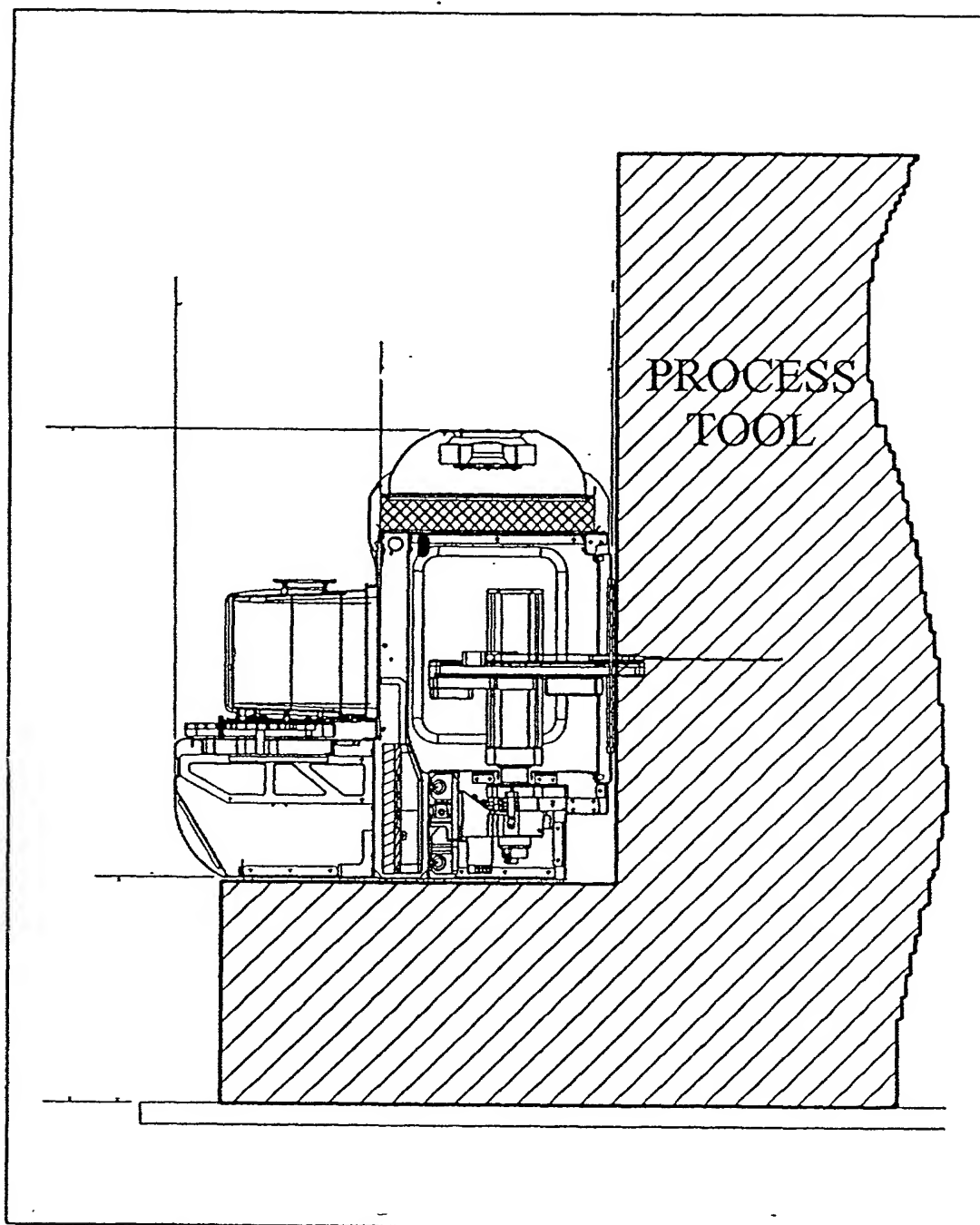


FIG. 30B

Docket No.: ASYS8173US1  
Serial No.: Unknown  
Confirm No: Unknown  
Filed: Herewith

Inventor(s): Anthony C. Bonora et al.  
Attorney: Scott D Sanford  
Phone: (415) 362-3800  
Express Mail No.: EL670726198US

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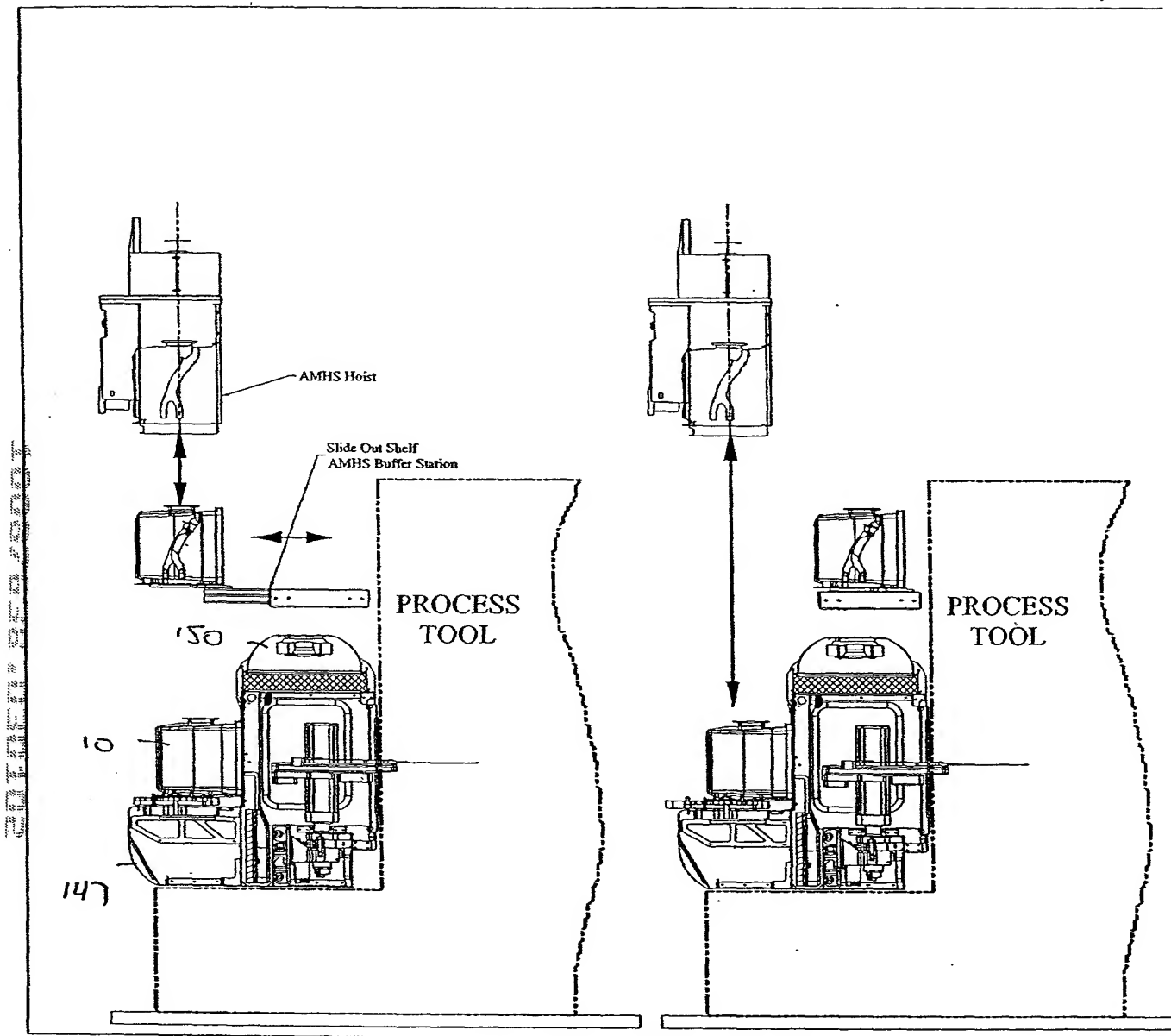


FIG. 31